

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A swash plate type variable capacity compressor to be used for a supercritical refrigerating cycle comprising:

a swash plate which is disposed rotatably,

a piston which is coupled with the swash plate and a cylinder which holds the piston movably,

a suction valve provided on the cylinder for sucking a refrigerant of the supercritical refrigerating cycle and

a discharge valve for discharging the refrigerant,
wherein:

the suction valve has flexible valve bodies ~~having flexibility~~ attached to suction ports for sucking the refrigerant, and

the swash plate type variable capacity compressor has valve bodies press-contacted in an elastically deformed state against valve seats of the suction ports to decrease ~~the number of rotations~~ a rate of rotation of the swash plate when the refrigerant is started to be compressed, each valve body formed with a curved peripheral portion that:

curves toward a valve seat and is elastically deformed by the valve seat into a flat state by the press-contact; and

is further elastically deformed when the valve body is in a valve-open state.

Art Unit: 3746

2. (Original) The swash plate type variable capacity compressor according to claim 1, wherein the valve bodies have deflection of 1 mm or less when the valve bodies are fitted to the suction ports and the valve bodies receive an external force of 1.8 N or less from the valve seats of the suction ports.

3. (Currently Amended) The swash plate type variable capacity compressor according to claim 1, wherein the supercritical refrigerating cycle is a refrigerating cycle for air conditioning of a car interior to be mounted in an automobile, and the swash plate type variable capacity compressor is a clutchless compressor which is coupled with a motor vehicle engine without ~~via~~a clutch.

4. (Currently Amended) The swash plate type variable capacity compressor according to claim 2, wherein the supercritical refrigerating cycle is a refrigerating cycle for air conditioning of a car interior to be mounted in an automobile, and the swash plate type variable capacity compressor is a clutchless compressor which is coupled with a motor vehicle engine without ~~via~~a clutch.

5. (New) A compressor, comprising:
a rotatable swash plate;
a suction valve on a cylinder and that draws in a refrigerant in response to motion of a piston in the cylinder;
and

flexible valve bodies respectively corresponding to suction ports of the suction valve, each valve body having a curved peripheral region: that curves toward a suction port; that, when press-contacted, is elastically deformed from a curved state

Art Unit: 3746

to a flat state against a valve seat of the suction port; and that is further elastically deformed past the flat state to a deformed curved state in which the curved peripheral region curves away from the valve seat when the suction valve draws in the refrigerant.